

ALBUMIN LEVELS OF BALI CATTLE THAT INFECTED BY FASCIOLA GIGANTICA

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ABSTRACT

Albumin is a plasma protein that is most widely in the body and serves to maintain the osmotic pressure of blood. Albumin levels on Bali cattle are infected by various factors, one of which is a worm infection *Fasciola gigantica*. The purpose of this research is to determine the levels of albumin Bali cattle that infected by *Fasciola gigantica*. This research is using 60 blood samples of Bali cattle, consisting of 30 blood samples Bali cattle that infected by *Fasciola gigantica* and 30 blood samples of healthy Bali cattle. This research are using cross-sectional studies methods, samples were taken at the Slaughter House Pesanggaran, Denpasar. Analysis of the data is using the one-sample t test, comparing samples that infected with the healthy samples. The results showed that the average levels of albumin Bali cattle infected with *Fasciola gigantica* was 3.24 g/dL and the average albumin levels were not infected with *Fasciola gigantica* was 4.14 g/dL. The data analysis showed that the infection of *Fasciola gigantica* highly significant ($P < 0.01$) towards decreased levels of albumin Bali cattle at 0.9 g/dL. It is concluded that infected Bali cows that are slaughtered in the Slaughterhouse Pesanggaran suffered liver disfunction.

Key Word: Albumin, Bali Cattle, Cross sectional studies, *Fasciolosis*, *Fasciola gigantica*.

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